

## **20414 Implementing an Advanced Server Infrastructure**

**Course Duration:** 5 days

**Overview:** In this course, students will learn how to plan and implement some of the more advanced features available in Windows Server 2012.

**Prerequisite Courses:**

20413 Designing and Implementing a Server Infrastructure

**Outline:**

**Lesson 1 - Planning and Implementing a Server Virtualization Strategy**

Overview of System Center 2012 Components

Integrating System Center 2012 and Server Virtualization

Planning and Implementing a Server Virtualization Host Environment

Lab : Planning and Implementing a Server Virtualization Strategy

**Lesson 2 - Planning and Implementing Networks and Storage for Virtualization**

Planning a Storage Infrastructure for Virtualization

Implementing a Storage Infrastructure for Virtualization

Planning and Implementing a Network Infrastructure for Virtualization

Lab : Planning and Implementing Virtualization Networks and Storage

**Lesson 3 - Planning and Deploying Virtual Machines**

Planning Virtual Machine Configuration

Preparing for Virtual Machine Deployments with VMM

Deploying Virtual Machines

Lab : Planning and Implementing a Virtual Machine Deployment and Management Strategy

**Lesson 4 - Planning and Implementing a Virtualization Administration Solution**

Planning and Implementing Microsoft System Center Administration

Planning and Implementing Self-Service with System Center

Planning and Implementing Automation with System Center

Lab : Planning and Implementing a Virtualization Administration Solution

**Lesson 5 - Planning and Implementing a Server Monitoring Strategy**

Planning Monitoring in Windows Server 2012

Overview of System Center Operations Manager

Planning and Configuring Monitoring Components

Configuring Integration with VMM

Lab : Implementing a Server Monitoring Strategy

### **Lesson 6 - Planning and Implementing High Availability for File Services and Applications**

Planning and Implementing Storage Spaces

Planning and Implementing DFS

Planning and Implementing Network Load Balancing

Lab : Planning and Implementing High Availability for File Services and Applications

### **Lesson 7 - Planning and Implementing a Highly Available Infrastructure Using Failover Clustering**

Planning a Failover Clustering Infrastructure

Implementing Failover Clustering

Integrating Failover Clustering with Server Virtualization

Planning a Multi-Site Failover Cluster

Lab : Planning and Implementing a Highly Available Infrastructure Using Failover Clustering

### **Lesson 8 - Planning and Implementing a Server Updates Infrastructure**

Planning and Implementing a Windows Server Update Services (WSUS) Deployment

Planning Software Updates with System Center 2012 Configuration Manager

Planning and Implementing Updates in a Server Virtualization Infrastructure

Lab : Planning and Implementing an Update Remediation Infrastructure

### **Lesson 9 - Planning and Implementing a Business Continuity Strategy**

Overview of Business Continuity Planning

Planning and Implementing Backup Strategies

Planning and Implementing Recovery

Planning and Implementing Virtual Machine Backup and Recovery

Lab : Implementing a Virtual Machine Backup Strategy with Data Protection Manager

### **Lesson 10 - Planning and Implementing a Public Key Infrastructure**

Planning and Implementing a Certification Authority Deployment

Planning and Implementing Certificate Templates

Planning and Implementing Certificate Distribution and Revocation

Planning and Implementing Key Archival and Recovery

Lab : Planning and Implementing an Active Directory Certificate Services (AD CS) Infrastructure

### **Lesson 11 - Planning and Implementing an Identity Federation Infrastructure**

Planning and Implementing an AD FS Server Infrastructure

Planning and Implementing AD FS Claim Providers and Relying Parties

Planning and Implementing AD FS Claims and Claim Rules

Lab : Planning and Implementing an Active Directory Federation Services (AD FS) Infrastructure

### **Lesson 12 - Planning and Implementing an Information Rights Management Infrastructure**

Planning and Implementing an AD RMS Cluster

Planning and Implementing AD RMS Templates and Policies

Planning and Implementing External Access to AD RMS Services

Planning and Implementing AD RMS Integration with Dynamic Access Control (DAC)

Lab : Planning and Implementing an AD RMS Infrastructure